# THERAPEUTIC BINDING AGENTS AGAINST MUC-1 ANTIGEN AND METHODS FOR THEIR USE


## Abstract of the disclosure

The invention provides therapeutic compositions comprising binding agents that specifically bind to tumor-associated MUC-1 and reduce, reverse or prevent their effects in cancer. More particularly, the invention provides therapeutic compositions that comprise a binding agent that can specifically bind to an epitope that comprises both peptide and carbohydrate on such tumor-associated MUC-1. The invention further provides methods for the use of such therapeutic compositions in the treatment of cancer.

The invention also provides methods for therapeutically treating a mammal bearing a tumor comprising administering to the mammal an effective amount of a therapeutic composition consisting essentially of a binding agent that specifically binds to an epitope of tumor-associated MUC1, wherein the mammal generates an immune response that comprises an antibody that specifically binds to an epitope of tumor-associated MUC1 that is different from the epitope of tumor associated MUC1 that is specifically bound by the binding agent.